



US006010174A

United States Patent [19]

Murdock et al.

[11] **Patent Number:** **6,010,174**[45] **Date of Patent:** **Jan. 4, 2000**[54] **SLIDING VISOR**5,645,308 7/1997 Fink 296/97.9
5,653,490 8/1997 Fink et al. 296/97.11[75] **Inventors:** Jay A. Murdock, Southgate; Edward
G. Curtindale, Farmington Hills; Ryan
E. Dillingham, Waterford, all of Mich.**FOREIGN PATENT DOCUMENTS**

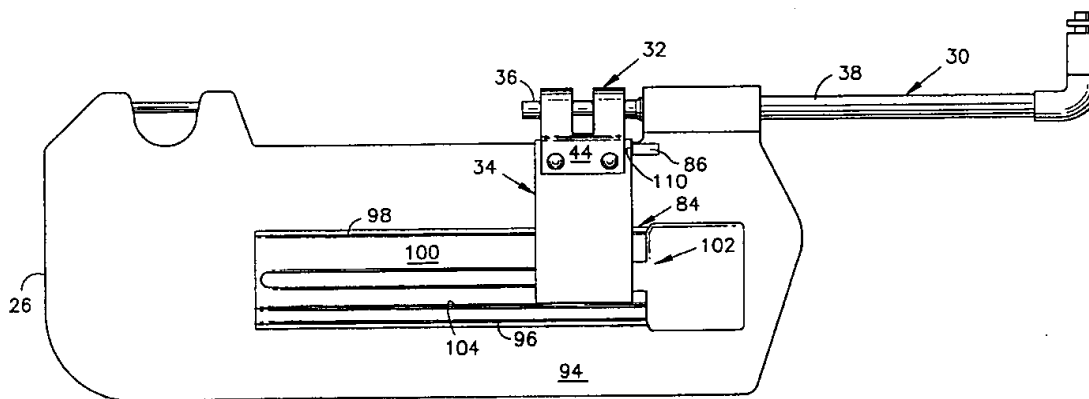
3324305 1/1985 Germany .

[73] **Assignee:** Lear Automotive Dearborn, Inc.,
Southfield, Mich.*Primary Examiner*—Andrew C. Pike
Attorney, Agent, or Firm—MacMillan, Sobanski & Todd,
LLC[21] **Appl. No.:** 08/837,173[22] **Filed:** Apr. 14, 1997[51] **Int. Cl.⁷** **B60J 3/02**[52] **U.S. Cl.** **296/97.11**[58] **Field of Search** 296/97.4, 97.8,
296/97.11[56] **References Cited****U.S. PATENT DOCUMENTS**

3,403,937	10/1968	Quaine	296/97.11
4,925,233	5/1990	Clark	296/97.11
4,982,992	1/1991	Vu et al.	296/97.6
5,004,288	4/1991	Viertel et al.	296/97.11
5,044,687	9/1991	Abu-Shumays et al.	296/97.11
5,071,186	12/1991	Hemmeke et al.	296/97.9
5,409,285	4/1995	Snyder et al.	296/97.11
5,538,310	7/1996	Frankhouse et al.	296/97.4

[57] **ABSTRACT**

A sliding visor includes a rod assembly and a visor body. The rod assembly includes a rod, a torque control, and a guide. The rod extends longitudinally. The torque control pivotally attaches to the rod. The guide is fixed to one side of the torque control. The visor body includes a bore and a track. The bore extends longitudinally between the channel and the rear edge of the visor body. The rod is received within the bore and extends into the visor body. The track extends longitudinally along the upper surface of the visor body. The track forms a substantially enclosed longitudinally extending passage adjacent the upper surface of the visor body. The passage is shaped to receive a portion of the guide. When the visor is moved longitudinally along the rod, the track slides with respect to the guide.

4 Claims, 4 Drawing Sheets**BEST AVAILABLE COPY**